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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

01/10/2011

THE LAW OFFICE OF KIRK D. WILLIAMS PO BOX 39425 DENVER, CO 80239-0425 EXAMINER

DOAN, DUC T

ART UNIT PAPER NUMBER

2185

DATE MAILED: 01/10/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,063	07/22/2003	Venkateshwar Rao Pullela	79771	8263

TITLE OF INVENTION: IDENTIFYING A FLOW IDENTIFICATION VALUE MASK BASED ON A FLOW IDENTIFICATION VALUE OF A

PACKET

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	04/11/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence including ed below or directed other tions	g the Patent, advance or erwise in Block 1, by (a	rders and notification of m a) specifying a new corres	paintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as urate "FEE ADDRESS" for
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THE LAW OF PO BOX 39425 DENVER, CO 8	FICE OF KIRK D 80239-0425	. WILLIAMS	I her State addr trans	eby certify that this Postal Service wessed to the Mail mitted to the USP	in Fee(s) ith suf Stop ΓΟ (57	s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	inission good deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/625,063	07/22/2003	•	Venkateshwar Rao Pullela	•		79771	8263
PACKET			N VALUE MASK BASE				
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0		\$1510	04/11/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
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"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.	ND RESIDENCE DATA	Indication form ed. Use of a Customer TO BE PRINTED ON T	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be	ely, elirm (having as a gent) and the nameneys or agents. If it orinted.	memb es of up no nam	er a 2p to le is 3	
recordation as set forti (A) NAME OF ASSIG	h in 37 CFR 3.11. Comp GNEE	letion of this form is NO	I' a substitute for filing an a (B) RESIDENCE: (CITY	and STATE OR C	OUNT	RY)	ocument has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	inted on the patent):	Individual 🖵 Co	rporati	on or other private gro	oup entity 🖵 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ A check is enclosed. ☐ Payment by credit care ☐ The Director is hereby	nt of Fee(s): (Please first reapply any previously paid issue fee shown above) heck is enclosed. ment by credit card. Form PTO-2038 is attached. Director is hereby authorized to charge the required fee(s), any deficiency, or credit any payment, to Deposit Account Number (enclose an extra copy of this form).			
a. Applicant claim	<b>tus</b> (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no long				
NOTE: The Issue Fee and interest as shown by the i	d Publication Fee (if requeecords of the United Sta	nired) will not be accepted tes Patent and Trademark	d from anyone other than the Office.	ie applicant; a regi	stered a	attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
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10/625,063	07/22/2003	Venkateshwar Rao Pullela	79771	8263
26327 75	590 01/10/2011		EXAM	INER
THE LAW OFFI	CE OF KIRK D. WI	DOAN, DUC T		
PO BOX 39425 DENVER, CO 80239-0425			ART UNIT PAPER NUMBER	
			2185	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1448 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1448 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/625,063	PULLELA ET AL.				
Notice of Allowability	Examiner	Art Unit				
	DUC T. DOAN	2185				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. <b>THIS</b>				
1. This communication is responsive to <u>12/22/2010</u> .						
2. X The allowed claim(s) is/are 2, 4-8, 10, 12, 14-17, 20, 22-25	and 28-32 (renumbered by Examine	<u>er)</u> .				
3. ☐ Acknowledgment is made of a claim for foreign priority unallowed All b) ☐ Some* c) ☐ None of the:						
1. Certified copies of the priority documents have						
<ol><li>Certified copies of the priority documents have</li></ol>						
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this r	national stage application from the				
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.					
(a) ☐ including changes required by the Notice of Draftspers		948) attached				
1)  hereto or 2)  to Paper No./Mail Date	•	,				
		ffice action of				
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note the				
Attachment(s)	5 Notice of Informal B	otant Application				
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	• •				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	ė .				
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examiner's Amendn	nent/Comment				
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	nt of Reasons for Allowance				
of Biological Material	9.					
/Duc T Doan/						
Examiner, Art Unit 2185						

#### **DETAILED ACTION**

#### Status of Claims

Claims 1-32 have been presented for examination in this application.

Claims 1, 3, 9, 11, 13, 18-19, 21 and 26-27 have been canceled.

Claims 2, 4-8, 10, 12, 14-17, 20, 22-25 and 28-32 remain pending.

Claims 2, 4-8, 10, 12, 14-17, 20, 22-25 and 28-32 are allowed.

### Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1 .312.To ensure consideration of such an amendment, it must be submitted no later than the payment of the issue fee.

Authorization for the examiner's amendments to the claims was given in a telephone interview with #42229 on 1/4/2010. The application has been amended as follows:

Claim 12 (currently amended): Logic encoded in one or more <u>non-transitory</u> tangible media for execution and when execute operable to perform the operations of execution, with corresponding operations being performed when executed by one or more processing elements, with said operations comprising:

identifying a flow identification value based on one or more fields extracted from a packet;

performing a lookup operation in one or more memories or associative memories using a lookup value generated based on the flow identification value

Application/Control Number: 10/625,063

Art Unit: 2185

in order to identify a flow identification value mask, the lookup value including the flow identification value;

masking the flow identification value with the flow identification value mask to generate a masked flow identification value; and

processing the packet or another packet based on the masked flow identification value.

Claim 17 (currently amended): The logic of claim 12, wherein said performing the lookup based on the flow identification value includes:

performing a first lookup operation on a first set of associative memory entries based on the flow identification value to generate an associative memory result; and

performing a second lookup operation in an adjunct memory based on the associative memory result to identify the flow identification value mask.

Claim 20 (currently amended): An apparatus for processing packets, the method the apparatus comprising:

means for identifying a flow identification value based on one or more fields extracted from a packet;

means for performing a lookup operation in one or more memories or associative memories using a lookup value generated based on the flow identification value in order to identify a flow identification value mask, the lookup value including the flow identification value;

means for masking the flow identification value with the flow identification value mask to generate a masked flow identification value; and

Art Unit: 2185

means for processing the packet or another packet based on the masked flow identification value.

Claim 24 (currently amended): The apparatus of claim 20, wherein said one or more memories or associative memories tangibly store entries representing an access control list, with said entries include processing indications of permit and deny operations; and said means for performing the lookup based on the flow identification value includes means for performing said lookup operation includes means for performing said lookup operation on said access control list entries.

Claim 29 (currently amended): The method of elaim 12 claim 2, wherein said steps include: processing the packet is processed based on said generated masked flow identification value.

#### Allowable Subject Matter

Claim 2, 4-8, 10, 12, 14-17, 20, 22-25 and 28-32 are allowable, these claims are allowable for the reasons stated at pages 4-6 of the Board of Patent Appeals and Interferences decision on 12/22/2010.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/625,063 Page 5

Art Unit: 2185

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Doan whose telephone number is 571-272-4171. The examiner can normally be reached on M-F 8:00 AM to 05:00 PM EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah can be reached on 571-272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Duc T Doan/

Examiner, Art Unit 2185